

# International Network of Crisis Mappers (CM\*Net) Growth, Communications and Response

Uniting practitioners, scholars & developers  
at the cutting edge of crisis mapping.

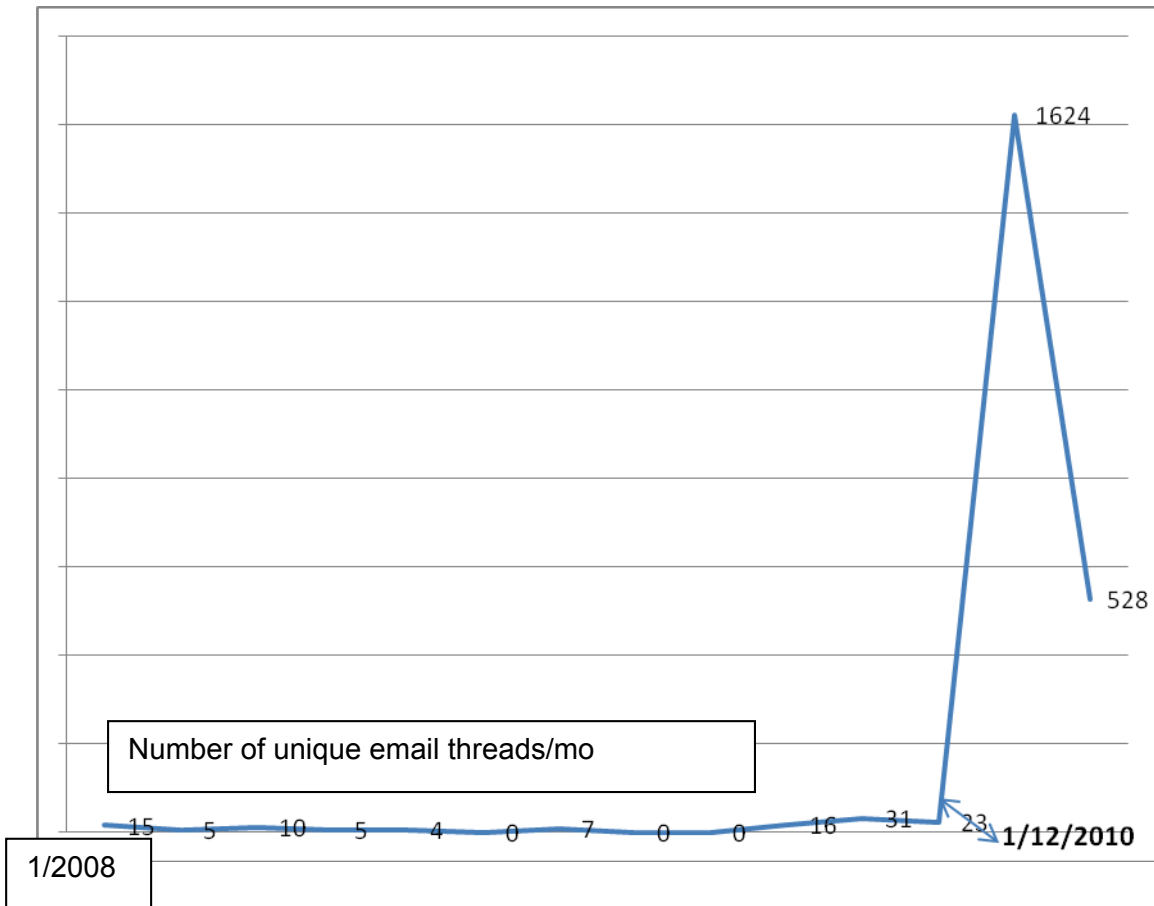


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March 1, 2010

# Measuring our Response: An Executive Summary

Number of message threads on Google Group/month:  
A brief history showing date of Haiti Earthquake



## Original Call to Action for Haiti: January 12, 7:08pm EST

"A major earthquake struck Haiti a few hours ago.  
Is there any way for us to help?... Thanks, Patrick"

## **As of Friday, March 1, 2010:**

- A Google Search of “crisis mapping” returned 116,000 results.
- The [CrisisMappers Google Group](#) has 706 members and a history of 2364 messages
- Over 574 individuals are now sharing profiles through [Crisis Mappers Net](#)

## **Urgent Needs: What are the top 3 most important indicators to begin crisis mapping?**

### CM\*Net Community Responses:

- Topographical and Street Maps
- Information on power, communication, infrastructure damage
- Information on looting, police, civil authority
- Damage assessments
- Seaports/airports/roads: open or closed?
- Logistics, helipads, and muster locations
- Missing persons database
- Location of health care facilities, hospital beds, access to first aid
- Defining flood prone areas
- Cell coverage, contacts at Digicel

## **Need: Improved Communication, Information, Phones**

Response: 3 Iridium Satellite Phones and 1 BGAN made available for disaster teams.

Response: Free solar bags to charge up phones made available.

Response: Google Voice: Free calls available. <http://bit.ly/7hJLL5>

## **Need: Communication Hubs**

*"The biggest tech challenge right now is communications within and in and out of Haiti. Setting up communication hubs with satellite service is a major tech priority at this point."*

Response: **International Number established for disaster response: +44 7624802524**

Response: **Free SMS Short Code for Haiti, 4636**

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/baf3f6f58883c4e5](http://groups.google.com/group/crisismappers/browse_thread/thread/baf3f6f58883c4e5)

## **Need: Ongoing, Updated Cell Coverage Information**

Response: Mobile Network Updates

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/c5e2a3660afbaf72?hl=en](http://groups.google.com/group/crisismappers/browse_thread/thread/c5e2a3660afbaf72?hl=en)

Response: Digicel and Voila Coverage

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/37fd9d4bfabcbcc4](http://groups.google.com/group/crisismappers/browse_thread/thread/37fd9d4bfabcbcc4)

Response: Haiti's Submarine Cable Damaged by earthquake

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/8dd992a2c7262ef0/7bd5b5f2d7ed44dd?lnk=gst&q=submarine#7bd5b5f2d7ed44dd](http://groups.google.com/group/crisismappers/browse_thread/thread/8dd992a2c7262ef0/7bd5b5f2d7ed44dd?lnk=gst&q=submarine#7bd5b5f2d7ed44dd)

## **Need: Language assistance**

Response: Haitian Creole Language Resources: <http://www2.ku.edu/~haitiancreole/>

Response: Translation Dictionary: <http://crisiscommons.org/wiki/index.php>

Response: Messaging between US and Haiti: <http://www.chirbit.com>

Response: Mobile Phone Apps for Real-Time Creole-English Translation

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/09341736060472ee](http://groups.google.com/group/crisismappers/browse_thread/thread/09341736060472ee)

## **Need: Coordination, daily summaries, discussion among responders**

Response: CM\*Net Group: <http://www.crisismappers.net/forum/topics/task-force-haiti-earthquake>

Response: Etherpad discussion: <http://etherpad.com/p6at5gEKvz>

Response: CrisisCommons wiki: <http://haiti.crisiscommons.org/atrium>

Response: Haiti Voices: <http://www.haitiVOICES.com>

Response: Disaster Accountability Hotline:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/1fed9cd4e6fcdf7c](http://groups.google.com/group/crisismappers/browse_thread/thread/1fed9cd4e6fcdf7c)

Response: News/Project aggregator: <http://crisiscommons.org/wiki/index.php>

Response: SouthComm APAN: [http://community.apan.org/pfa/haiti\\_hadr/default.aspx](http://community.apan.org/pfa/haiti_hadr/default.aspx)

Response: UN OCHA Contact Management Directory: <http://3w.unocha.org/WhoWhatWhere/>

Response: Daily Situation Reports (InSTEDD)

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/f1c305ff5efa7b73](http://groups.google.com/group/crisismappers/browse_thread/thread/f1c305ff5efa7b73)

Response: Tweak the Tweet Initiative:

[http://epic.cs.colorado.edu/helping\\_haiti\\_tweak\\_the\\_twe.html](http://epic.cs.colorado.edu/helping_haiti_tweak_the_twe.html) <http://tinyurl.com/yjfrjv6>

Response: Situation Reports (Crisis Mappers Group, Sahana, CHF Field Notes, PAHO, UN Briefing)

Response: Conference Calls (Crisis Camp, Disaster Accountability Project, Department of Homeland Security)

## **Need: Solid Local News Sources**

Response:

Haitian Radio Stations:

<http://www.metropolehaiti.com/>

<http://www.signalfmhaiti.com/>

<http://www.radyoginen.com/>

<http://www.radiokiskeya.com/>

<http://www.kidon.com/media-link/ht.php>

Response: Radio and TV stations map

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/b79253f92ab01d71](http://groups.google.com/group/crisismappers/browse_thread/thread/b79253f92ab01d71)

Response: Twitter and Blog Sources to Follow:

<http://twitter.com/LesNews>

<http://twitter.com/nprnews/haiti-earthquake>

<http://twitter.com/LambiFund>

<http://twitter.com/fredodupoux>

<http://twitter.com/mediahacker>

<http://twitter.com/yatalley>

<http://twitter.com/newmissions>

<http://twitter.com/ForHaiti>

<http://twitter.com/haitiwire>

<http://twitter.com/MartineATF>

<http://twitter.com/gvaval>

<http://twitter.com/etnos>

<http://twitter.com/FutureHaiti>

<http://godslittlestangelsinhaiti.org/>

Tweets List: <http://twitter.com/nprnews/haiti-earthquake>

Twitter Photo: <http://twitpic.com/photos/LesNews>

## **Need: Information on Trapped Persons and Missing Persons**

Response: Person Finder Gadget: <http://www.google.com/relief/haitiearthquake/>

Response: Entrapment Thread

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/8096f26355fc85b6](http://groups.google.com/group/crisismappers/browse_thread/thread/8096f26355fc85b6)

Response: Ushahidi Data: <http://haiti.ushahidi.com/>

## **Need: Current status of roads, airports, and ports: open or closed?**

Response: Status of all Haitian Ports

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/f6ac6165e65de5fe](http://groups.google.com/group/crisismappers/browse_thread/thread/f6ac6165e65de5fe)

Response: New runway being built at PaP airport

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/c1c29341b094a01f](http://groups.google.com/group/crisismappers/browse_thread/thread/c1c29341b094a01f)

Response: WFP Road information

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/e56312d0ce6e37e5](http://groups.google.com/group/crisismappers/browse_thread/thread/e56312d0ce6e37e5)

Response: UNJLC Road data for Haiti: <http://finder.geocommons.com/overlays/4492>

Response: Port Au Prince road network: <http://finder.geocommons.com/overlays/20385>

Response: Road Network Map

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/09c9b8296387162b](http://groups.google.com/group/crisismappers/browse_thread/thread/09c9b8296387162b)

Response: Bottlenecks at DR Border

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/1830ae44f70292a6](http://groups.google.com/group/crisismappers/browse_thread/thread/1830ae44f70292a6)

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/64674eedcb249319](http://groups.google.com/group/crisismappers/browse_thread/thread/64674eedcb249319)

Response: Helicopters Available

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/074a5ab6672ba2ee](http://groups.google.com/group/crisismappers/browse_thread/thread/074a5ab6672ba2ee)

## **Need: Fuel and information about securing fuel**

Response: For fuel shortage needs:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/0cc4c8137f3769ed](http://groups.google.com/group/crisismappers/browse_thread/thread/0cc4c8137f3769ed)

Response: Fuel SitRep:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/c1333dda03ad1447](http://groups.google.com/group/crisismappers/browse_thread/thread/c1333dda03ad1447)

## **Need: Logistics Information**

Response: Update on available warehouses

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/dc1dc96b4cfb0748](http://groups.google.com/group/crisismappers/browse_thread/thread/dc1dc96b4cfb0748)

Response: Map of Police Facilities

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/05daef7b3e7f98d0](http://groups.google.com/group/crisismappers/browse_thread/thread/05daef7b3e7f98d0)

Response: Regional Logistics Map

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/adc9cb09e09c588d](http://groups.google.com/group/crisismappers/browse_thread/thread/adc9cb09e09c588d)

Response: Latest Confirmed Logistics Info: <http://bit.ly/7655sT>

Response: Built Up Data: <http://www.qdacs.org>

Response: Logistics Cluster: <http://www.logcluster.org/ops/hti10a/haiti-earthquake-update>

## **Need: Info regarding deployments to Haiti, estimated arrival times**

Response: InterAction list of organisations: <http://www.interaction.org/crisis-list/earthquake-haiti>

Response: Sahana, registry of organizations: <http://haiti-orgs.sahanafoundation.org/>

Response: Sahana: <https://launchpad.net/~sahana-haiti>

Response: Deployment Information: MercyCorps, UN-Ocha: information management network, UNDAC, & Disaster Waste Recovery Team, Inveneo Wi-Fi Engineers

Response: Ushahidi List of Organizations and Activities:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/9d7f6f480991327a](http://groups.google.com/group/crisismappers/browse_thread/thread/9d7f6f480991327a)

*Special Inquiry: "I have a boat near Puerto Rico and could pick up 8-15 aid workers and/or 1-2 tons of supplies in Puerto Rico or Santo Domingo within 60 hours or so."*

## **Need: Information on Hospitals, Health and Aid**

Response: Hospital Ready for 200 patients! (January 15), Hospital in Milot ready, Etc.

Response: Port Au Prince Hospitals: <http://finder.geocommons.com/overlays/20386>

Response: Hospital Overlays Map: <http://finder.geocommons.com/overlays/20338>

Response: Health Map Haiti: <http://healthmap.org/haiti>

Response: Hospitals Mapped

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/18d601b4d760f53f](http://groups.google.com/group/crisismappers/browse_thread/thread/18d601b4d760f53f)

Response: Haiti Health Facilities, Master List

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/e63cc0747357b9d8](http://groups.google.com/group/crisismappers/browse_thread/thread/e63cc0747357b9d8)

Response: Comprehensive Registry, All Haiti Health Facilities

<http://onerresponse.info/Disasters/Haiti/Health/Pages/default.aspx>

Response: Hospitals, DR Border

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/6264795553a15966](http://groups.google.com/group/crisismappers/browse_thread/thread/6264795553a15966)

Response: Call to Geo-locate ~ 100 Hospitals challenge and response

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/e7f09e15dea94766](http://groups.google.com/group/crisismappers/browse_thread/thread/e7f09e15dea94766)

## **Need: Mapping Disease and Epidemics**

Response: Operational Biosurveillance: [www.healthmap.org/haiti](http://www.healthmap.org/haiti)

Response: Haiti Epidemic Advisory System

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/b9f82786651d6e39](http://groups.google.com/group/crisismappers/browse_thread/thread/b9f82786651d6e39)

Response: Malaria Cases

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/0a8d5ecba6bbaf46](http://groups.google.com/group/crisismappers/browse_thread/thread/0a8d5ecba6bbaf46)

Response: Tuberculosis

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/57656f691b0d2086](http://groups.google.com/group/crisismappers/browse_thread/thread/57656f691b0d2086)

Response: WHO Health Map

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/18b7dbd2e04879a9](http://groups.google.com/group/crisismappers/browse_thread/thread/18b7dbd2e04879a9)

## **Need: Updated Status of IDP Camps**

Response: IDP Database

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/1d937498c850bcb8](http://groups.google.com/group/crisismappers/browse_thread/thread/1d937498c850bcb8)

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/9551037d47508686](http://groups.google.com/group/crisismappers/browse_thread/thread/9551037d47508686)

Response: IDPs, Bridges, Road Obstacles:

[http://unosat.web.cern.ch/unosat/asp/prod\\_free.asp?id=52](http://unosat.web.cern.ch/unosat/asp/prod_free.asp?id=52)

## **Need: Information on Earthquake**

Response: Shaking Intensity Data by address: <http://bit.ly/7e15RS>

Response: Near Real Time Analysis of Quake:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/5b77183a5d484ab6](http://groups.google.com/group/crisismappers/browse_thread/thread/5b77183a5d484ab6)

Response: Earthquake maps: <http://maker.geocommons.com/maps/10987>

<http://www.reliefweb.int/RWFeed/Feed?Type=RSS20&ID=14&emid=EQ-2010-000009-HTI>

Response: Information from USGS shared related to the fault zone: Specialized TIFF Files

[http://www.gelib.com/maps/haiti-earthquake/Source/Administrative Boun...](http://www.gelib.com/maps/haiti-earthquake/Source/Administrative_Boun...)

[http://www.gelib.com/maps/haiti-earthquake/Source/Epicentral Region.zip](http://www.gelib.com/maps/haiti-earthquake/Source/Epicentral_Region.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/Estimated Populatio...](http://www.gelib.com/maps/haiti-earthquake/Source/Estimated_Populatio...)

[http://www.gelib.com/maps/haiti-earthquake/Source/Fault Lines.zip](http://www.gelib.com/maps/haiti-earthquake/Source/Fault_Lines.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/Global Map Haiti.zip](http://www.gelib.com/maps/haiti-earthquake/Source/Global_Map_Haiti.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/Haiti Earthquakes.zip](http://www.gelib.com/maps/haiti-earthquake/Source/Haiti_Earthquakes.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/Intensity Zones.zip](http://www.gelib.com/maps/haiti-earthquake/Source/Intensity_Zones.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/Joint Operations Gr...](http://www.gelib.com/maps/haiti-earthquake/Source/Joint_Operations_Gr...)

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[http://www.gelib.com/maps/haiti-earthquake/Source/Major Roads.zip](http://www.gelib.com/maps/haiti-earthquake/Source/Major_Roads.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/PAP Roads.zip](http://www.gelib.com/maps/haiti-earthquake/Source/PAP_Roads.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/PAP Topo-1994.zip](http://www.gelib.com/maps/haiti-earthquake/Source/PAP_Topo-1994.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/Port-Au-Prince Stre...](http://www.gelib.com/maps/haiti-earthquake/Source/Port-Au-Prince_Stre...)

[http://www.gelib.com/maps/haiti-earthquake/Source/Port-Au-Prince Stre...](http://www.gelib.com/maps/haiti-earthquake/Source/Port-Au-Prince_Stre...)

[http://www.gelib.com/maps/haiti-earthquake/Source/Port-Au-Prince Topo...](http://www.gelib.com/maps/haiti-earthquake/Source/Port-Au-Prince_Topo...)

[http://www.gelib.com/maps/haiti-earthquake/Source/Potentially Affecte...](http://www.gelib.com/maps/haiti-earthquake/Source/Potentially_Affecte...)

[http://www.gelib.com/maps/haiti-earthquake/Source/Seismic Hazard.zip](http://www.gelib.com/maps/haiti-earthquake/Source/Seismic_Hazard.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/Shaded Relief.zip](http://www.gelib.com/maps/haiti-earthquake/Source/Shaded_Relief.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/Shake Map.zip](http://www.gelib.com/maps/haiti-earthquake/Source/Shake_Map.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/Tectonic Setting.zip](http://www.gelib.com/maps/haiti-earthquake/Source/Tectonic_Setting.zip)

[http://www.gelib.com/maps/haiti-earthquake/Source/Topographic Detail.zip](http://www.gelib.com/maps/haiti-earthquake/Source/Topographic_Detail.zip)

## **Need: Satellite Imagery**

Response: Link to over 100 files

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/efebae5a0e383c73](http://groups.google.com/group/crisismappers/browse_thread/thread/efebae5a0e383c73)

Response: UNOSAT

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/336a3317eee3b9e2](http://groups.google.com/group/crisismappers/browse_thread/thread/336a3317eee3b9e2)

Response: RadarSat-2 Imagery

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/b9f644c50088baee](http://groups.google.com/group/crisismappers/browse_thread/thread/b9f644c50088baee)

Response: GeoEye: <http://www.topomaparchive.com/maps/Haiti/GeoEye-Jan13-PAP1.zip>

[http://www.aaas.org/international/geotech/haiti/W Pt-au-Prince HTI GE1\\_13JAN2010\\_cp.tif](http://www.aaas.org/international/geotech/haiti/W_Pt-au-Prince HTI GE1_13JAN2010_cp.tif)

<http://www.topomaparchive.com/maps/Haiti/GeoEye-Jan13-PAP2.zip>

<http://www.google.com/relief/haitiearthquake/geoeeye.html>

<http://cassini.toolserver.org/haitiearthquake-geoeeye-tiffs/>

<http://mw1.google.com/mw-earth-vectordb/haiti/Haiti-Earthquake-nl.kml>



Response: DigitalGlobe

<http://browse.digitalglobe.com/imagefinder/showBrowseMetadata?catalogId=103001000360BC00>

Response: National Geospatial Intelligence Agency: <http://hdds.usgs.gov/EO/library.php>

Response: NASA Imagery:

[ftp://8.17.170.176/ali\\_l1g/2010/015/EO1A0090472010015110P0\\_ALI\\_L1G/](ftp://8.17.170.176/ali_l1g/2010/015/EO1A0090472010015110P0_ALI_L1G/)

Response: Crisis Event Service: [http://maps.geography.uc.edu/cgi-bin/mapserv%3Fmap%3D/home/cgn/public\\_html/maps/mapfiles/haiti.map](http://maps.geography.uc.edu/cgi-bin/mapserv%3Fmap%3D/home/cgn/public_html/maps/mapfiles/haiti.map)

Response: MINUSTAH data: [http://www.aaas.org/international/geotech/haiti/minustah\\_shp.zip](http://www.aaas.org/international/geotech/haiti/minustah_shp.zip)

Response: SouthComm Global Hawk Imagery: <https://sites.google.com/a/inrelief.org/ea-sandbox/home/haiti-damage-map>

Response: Updated Imagery Collection:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/2e080df0fdc09240](http://groups.google.com/group/crisismappers/browse_thread/thread/2e080df0fdc09240)

Response: Remote Sensing

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/04009ca1127cc5aa](http://groups.google.com/group/crisismappers/browse_thread/thread/04009ca1127cc5aa)

Response: Flight plans and strategies from WFP and NOAA:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/61c304782838a7a3](http://groups.google.com/group/crisismappers/browse_thread/thread/61c304782838a7a3)

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/ee1c322bac30ecd3](http://groups.google.com/group/crisismappers/browse_thread/thread/ee1c322bac30ecd3)

## **Need: Aerial photos**

Response: USNG Polygons <http://mississippi.deltastate.edu/data/haiti>

Response: KML Files: [http://www.gelib.com/temp/Offline\\_v1.zip](http://www.gelib.com/temp/Offline_v1.zip)

Response: Google (15cm imagery):

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/16366981e125ba7f](http://groups.google.com/group/crisismappers/browse_thread/thread/16366981e125ba7f)

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/fc7d3febfeab0118](http://groups.google.com/group/crisismappers/browse_thread/thread/fc7d3febfeab0118)

Response: Pictometry Data Imagery

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/e0e359d424b8bc42](http://groups.google.com/group/crisismappers/browse_thread/thread/e0e359d424b8bc42)

Response: NOAA

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/fc6b180f855bc76a](http://groups.google.com/group/crisismappers/browse_thread/thread/fc6b180f855bc76a)

Response: 3d Stereoscopic view of PaP

[http://www.scanex.ru/news.local/news/img/n14013543IMG\\_1.jpg](http://www.scanex.ru/news.local/news/img/n14013543IMG_1.jpg)

## **Need: The latest, best maps (continually updated)**

Response: New KML Layer of previously unmapped, poor areas in Haiti

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/99175f5a71c5859e](http://groups.google.com/group/crisismappers/browse_thread/thread/99175f5a71c5859e)

Response: Open Street Map: <http://www.openstreetmap.org/>, <http://haiti.openstreetmap.nl/>

<http://labs.geofabrik.de/haiti/> <http://www.lib.utexas.edu/maps/haiti.html>

<https://gist.itos.uga.edu/> <http://www.omnimap.com/catalog/int/haiti50r.htm> WikiProject Haiti:

[http://wiki.openstreetmap.org/wiki/WikiProject\\_Haiti#2010\\_Earthquake\\_Response](http://wiki.openstreetmap.org/wiki/WikiProject_Haiti#2010_Earthquake_Response)

Response: Garmin Maps: <http://labs.geofabrik.de/haiti/>

Response: Haiti Map Maker (Google): <http://mapmaker.google.com/datadownload>

Response: Topographic maps: <http://www.gelib.com/maps/haiti-earthquake/Source/PAP-Topos.zip>

Response: Shuttle Radar Topography Mission: <http://www.landcover.org>

Response: MGRS Data:

[http://greatriver.deltastate.edu/arcgis/services/Haiti/Haiti\\_MGRS\\_1000m](http://greatriver.deltastate.edu/arcgis/services/Haiti/Haiti_MGRS_1000m)

Response: HIU KMZ:

<http://rcpt.yousendit.com/804198764/bb85cd406dc7be31ffca37a80851c7f6>

Response: [http://sertit.u-](http://sertit.u-strasbg.fr/SITE_RMS/2010/01_rms_haiti_2010/01_rms_haiti_2010.html)

[strasbg.fr/SITE\\_RMS/2010/01\\_rms\\_haiti\\_2010/01\\_rms\\_haiti\\_2010.html](http://sertit.u-strasbg.fr/SITE_RMS/2010/01_rms_haiti_2010/01_rms_haiti_2010.html)

Response: Army [http://groups.google.com/group/crisismappers/browse\\_thread/thread/](http://groups.google.com/group/crisismappers/browse_thread/thread/)

Response: Hypercube: <http://hypercube.telascience.org/haiti/uav.html>

*Note: As a result of sharing these maps, discussions emerge related how to quickly improve existing maps, using handcoding, improving symbology, and utilizing satellite imagery.*

Response: Improving symbology:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/580a4b33217df734](http://groups.google.com/group/crisismappers/browse_thread/thread/580a4b33217df734)

## **Need: Data, Images, Common Locations and Gazetteers**

Response: Images: <http://maps.geography.uc.edu/~cgn/maps/Haiti/imagery/SouthCom/SC.zip>

Response: Data Repository: <https://gist.itos.uga.edu/>

Response: Gazetteers: <http://www.fallingrain.com/world/HA/>

Response: Emicus Widget: <http://www.emicus.com/events/43?fmt=widget>

Response: From Fletcher Situation Room, Lat-Lon coords for common/critical PaP locations

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/5428f8a4e1c00a32](http://groups.google.com/group/crisismappers/browse_thread/thread/5428f8a4e1c00a32)

Response: Collaboration around data merging:

[http://wiki.openstreetmap.org/wiki/WikiProject\\_Haiti](http://wiki.openstreetmap.org/wiki/WikiProject_Haiti)

Response: Discussion around appropriate/common coordinate systems:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/369c840e7309edd8](http://groups.google.com/group/crisismappers/browse_thread/thread/369c840e7309edd8)

Note: Numerous discussions related to problems and workaround related to downloading or accessing images or maps, access, conversion and geo-referencing proved useful. Network helped individuals avoid unnecessary duplication on several occasions.

## **Need: Better mapping for those in the field (request from operators on the ground)**

*Example: "A garmin img file of roads and places with clear instructions for non-gis users on how to load it to some common garmin units could be helpful."*

Discussion emerges about the best platform to improve maps/images.

Response: GPS Materials for Responders: OSM as Garmin img and loading instructions:

<http://labs.geofabrik.de/haiti/>

Response: Network collaborated to produce Garmin GPS maps for responders, including georeferenced JPGs to help cope with size problem. <http://haiti.crisiscommons.org/gps/>  
<http://haiti.crisiscommons.org/haiti.img>

Response: iPhone App: <http://itunes.apple.com/us/app/emicus-reporter/id317344572?mt=8>

Response: Open Street Maps in PDF for responders: <http://walking-papers.org/>

Response: Mobile Phone Apps for Real-Time Creole-English Translation

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/09341736060472ee](http://groups.google.com/group/crisismappers/browse_thread/thread/09341736060472ee)

## **Need: Materials for shelter**

Response: Vinyl materials available:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/305dacf0332f3566](http://groups.google.com/group/crisismappers/browse_thread/thread/305dacf0332f3566)

Response: Tarps available:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/028567888a630b95](http://groups.google.com/group/crisismappers/browse_thread/thread/028567888a630b95)

## **Need: Damage Assessment**

Response: KML: <http://www.gelib.com/maps/haiti-earthquake/PreliminaryDamageAssessment.kmz>

Response: Damage Assessment based on GeoEye:

<http://www.google.com/relief/haitiearthquake/>

Response: JRC Damage Assessment

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/0d4cbd9f0790d4cc](http://groups.google.com/group/crisismappers/browse_thread/thread/0d4cbd9f0790d4cc)

Response: Map of Destroyed Schools

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/52906df0ced1cde8](http://groups.google.com/group/crisismappers/browse_thread/thread/52906df0ced1cde8)

Response: Damage Assessment Maps and shapefiles: <http://dma.jrc.it/map/data>

Response: Damaged Building Density Map

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/1194426d4b920522](http://groups.google.com/group/crisismappers/browse_thread/thread/1194426d4b920522)

## **Need: Landslides, mud, weather information**

Response: Landslide Risks:

<http://dma.jrc.it/map/data&usg=AFQjCNFpPgZZcvCkJpH93Vw3l0PfqbB3iw>

Response: Flood, Drainage Assessment

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/ebaf910e6bf91b2a](http://groups.google.com/group/crisismappers/browse_thread/thread/ebaf910e6bf91b2a)

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/ad98fd324c75e328](http://groups.google.com/group/crisismappers/browse_thread/thread/ad98fd324c75e328)

Response: Concern for rain and mud

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/f667eff5caa782a0](http://groups.google.com/group/crisismappers/browse_thread/thread/f667eff5caa782a0)

Response: Weather information

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/f18feb006b28b39c](http://groups.google.com/group/crisismappers/browse_thread/thread/f18feb006b28b39c)

## **Need: Detailed information on safe water resources**

Response: Donating Water Treatment Unit

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/231e122c3fbcdc46](http://groups.google.com/group/crisismappers/browse_thread/thread/231e122c3fbcdc46)

Response: Haiti water wells locations: <http://finder.geocommons.com/overlays/20382>

Response: Updated Resources on Safe Water

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/231e122c3fbcdc46](http://groups.google.com/group/crisismappers/browse_thread/thread/231e122c3fbcdc46)

Response: Rivers in Haiti: <http://finder.geocommons.com/overlays/20383>

Response: Haiti Lakes and water bodies: <http://finder.geocommons.com/overlays/20379>

Response: Map of Water lines in PaP:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/3ea665f23ac3fdc5](http://groups.google.com/group/crisismappers/browse_thread/thread/3ea665f23ac3fdc5)

Response: USAID Map of IDPs, Water and Health Facilities:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/1194426d4b920522](http://groups.google.com/group/crisismappers/browse_thread/thread/1194426d4b920522)

## **Need: Software and Technological help and resources**

Response: Ushahidi install: <http://haiti.ushahidi.com>

Response: Converting OSM to IMG files: <http://www.mkqmap.org.uk/index.html>

Need: Fletcher/Ushahidi SitRoom needs iMACs

Response: computers donated

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/713ad5966fc5fe3b](http://groups.google.com/group/crisismappers/browse_thread/thread/713ad5966fc5fe3b)

## **Need: Social/Cultural Understanding of Haiti Context**

Example: "Where cemeteries are and paths to get there. Can you map these? Bodies have to go asap and in cultural context."

Response: ICRC: Why dead bodies do not cause epidemics:

<http://www.icrc.org/web/eng/siteeng0.nsf/htmlall/health-bodies-140110>

Response: Port Au Prince Landmarks: <http://finder.geocommons.com/overlays/20387>

Response: Port Au Prince Landmarks II: <http://finder.geocommons.com/overlays/20389>

Response: Demographic data: <https://www.geoint-online.net/community/haitiearthquake/default.aspx>

## Press

Washington Post: <http://www.washingtonpost.com/wp-dyn/content/article/2010/01/15/AR2010011502650.html>

TED Blog: [http://blog.ted.com/2010/01/ushahidi\\_brings.php](http://blog.ted.com/2010/01/ushahidi_brings.php)

NPR: <http://www.nhpr.org/node/28223>

Salon.com: <http://www.salon.com/news/>

O'Reilly Radar: <http://radar.oreilly.com/2010/01/haiti-osm-and-sat-imagery-for.html>

New Zealand Herald:

[http://www.nzherald.co.nz/technology/news/article.cfm?c\\_id=5&objectid=10621259](http://www.nzherald.co.nz/technology/news/article.cfm?c_id=5&objectid=10621259)

WKYC Cleveland:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/35c6dbd2c6985a3e](http://groups.google.com/group/crisismappers/browse_thread/thread/35c6dbd2c6985a3e)

UN Commentary on the value of social media in Haiti:

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/e63cc0747357b9d8](http://groups.google.com/group/crisismappers/browse_thread/thread/e63cc0747357b9d8)

## Collaboration around other topics

- Weekly updates: Blogs and Forums, International Network of Crisis Mappers (CM\*Net) Website
- Announcing monthly GeoTime Webcasts for the CrisisMapping Network  
[http://groups.google.com/group/crisismappers/browse\\_thread/thread/a71e377f12714b5c](http://groups.google.com/group/crisismappers/browse_thread/thread/a71e377f12714b5c)
- Carbon Capture Report: Tracking Climate Change. <http://www.carboncapturereport.org/>
- **Visualizing Internet Access:** Freedom House's Freedom of the Net survey:  
<http://freedomhouse.org/template.cfm?page=383&report=79>
- The Berkman Center: <http://cyber.law.harvard.edu/>
- The Open Net Initiative <http://opennet.net/>
- Sharing info regarding Kenya's election violence (Ushahidi)
- Introducing Ushahidi 1.0: Mogadishu  
<http://blog.ushahidi.com/index.php/2009/12/10/releasing-ushahidi-1-0-mogadishu/>

## Call for papers and Upcoming Events

FACTS Reports Call for Papers Nov 2009

Geoinformatics Forum 2010: Spatial Vulnerability, [www.gi-forum.org](http://www.gi-forum.org)

Proposed Task Force to *monitor election in the Philippines*, May 2010:

<http://www.crisismappers.net/forum/topics/task-force-mapping-philippine>

Ushahidi Deployment, Philippines Typhoon: <http://www.cp-union.com/ondoy>

Mashups from typhoon in Philippines

<http://sites.google.com/site/ondoymanila/>

<http://www.google.com/landing/typhoon-ondoy.html>

<http://www.google.com/maps/mpl?moduleurl=http://sugo-katta.appspot.co>

Inquiry: Can sharing satellite images of pre-election Sudan help understand voter turnout?

Talking Papers/Walking Papers/ TerraGO

<http://www.terragatech.com/solutions.php>

<http://humanitariantech.com/2009/11/16/talking-papers-a-world-without-data-entry/>

## **Sample Blogs**

Crisis Mapping and Agent Based Modeling

<http://irevolution.wordpress.com/2009/04/14/crisis-mapping-and-agent-based-models/>

The Mathematics of War

<http://earlywarning.wordpress.com/2009/06/21/the-mathematics-of-war-before-the-ted-talk/>

3d Crisis Mapping for Disaster Simulation Training

<http://irevolution.wordpress.com/2008/12/14/3d-disaster-simulation/>

How To Leverage Google's New Earth Engine for Crisis Mapping

<http://irevolution.wordpress.com/2009/12/18/earth-engine>

UN Foundation Report

<http://irevolution.wordpress.com/2009/12/10/new-tech-un-foundation/>

Computational Platform: Satellite Imagery Analysis

<http://blog.google.org>

## **Accolades**

"From day one I've been summarizing and forwarding the crismappers googlegroups messages up the Federal chain and want to let you know that your products are being used in Region IV, across agencies in D.C., and in the field. You guys are doing an amazing job and it is getting noticed, and having a positive impact, around the world!!" --Mary Meade, GIS Information Specialist, FEMA Region IV

"Patrick- You and your colleagues and the entire Group have simply been outstanding. Not only is there energy and enthusiasm but there is focus and purpose. There is real true value as this effort plays a meaningful role in provisioning resources to create a more effective disaster response. I think in part this is really what the first Strong Angel participants wanted the world to look like and you and many others have worked tirelessly to make it happen. Equally gratifying to me is the way many (though not all) of the organized .mil , .gov and .ngo communities have seen the value of this effort and have embraced it and contributed back to it. Southern Commands APAN is simply an outstanding bridge between disaster 1.0 and the new disaster 2.0, and the UN, World Bank and others have freely shared and exchanged data with this group. This is when relief works when there is synergy of effort and a transparency of information which realizes there is an interdependence to response that can be successful when there is inclusion of capability. " --Carl Taylor

## Sample Contributors to CrisisMappers Discussions

AAAS	Global Resource Initiative	OCHA
AGCommons	Google.org	OpenStreetMap
Amnesty International, USA	Google Earth Outreach	Ortelius
CrisisCamp	Google Crisis Response	Reuters Alertnet
CrisisCommons	Harvard Humanitarian Initiative	Sahana
Deep Springs International	Health Map	Scientific Visualization of Earth and Planetary Data
Delta State University	Hope for Haiti	UNDAC
Department of Homeland Security	Humanitarian Information Unit	UNICEF
Development Seed	Human Rights Watch	UNITAR
DigitalGlobe	ICRC	United Nations: Office of the Secretary General
Disaster Accountability Project	ICT4Dev	UN-SPIDER
Disaster Waste Recovery	InSTEDD, Mesh4X	United States Southern Command
Drupal	International Action	(SOUTHCOMM)
Earthquake Engineering Research Institute	Internews	University of Illinois
Emergency, Inc.	Inveneo	UNOSAT
Emicus.com	IthacaWeb	USAID
ESRI	Joint Research Centre	USAID-WINNER
Tufts University	Kiwanja.net	USGS EROS
FEMA	NiJeL.org	Ushahidi
FortiusOne	MapAction	US NOAA
Gelib (Google Earth Library)	Map Kibera	US Transcomm
GeoEye	Meedan	World Bank
GISCorps	MercyCorps	World Food Programme
Global Disaster Alert and Coordination System	Metrostar Systems	2Collaborate Consulting
	Mindtel	82 <sup>nd</sup> Airborne Division, US Army
	MINUSTAH	
	NASA	
	NPR Social Media Desk	

### Official Crisis Mappers Directory

[http://groups.google.com/group/crisismappers/browse\\_thread/thread/118c792f4a21af99](http://groups.google.com/group/crisismappers/browse_thread/thread/118c792f4a21af99)